

**ABSTRACT**

A position sensor comprises a resistive element positionable on a first surface. A pair of leads are on the resistive element, the pair of leads adapted to supply a first voltage, such as by being grounded. An intermediate lead is positioned on the resistive element between the pair of leads, the intermediate lead being adapted to provide a second voltage. A contact element is positionable on a second surface, the contact element adapted to contact at least a portion of the resistive element to detect a voltage at a contact position, the detected voltage being related to the position or movement of the second surface relative to the first surface. In another version, a position sensor comprises a resistive element comprising first and second resistive strips. A plurality of leads are positioned on each resistive strip to provide a voltage to each resistive strip.